BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
Bill of Quantities (Schedule-B)

Name of the Work: Providing and fixing of LED Street Lights and control switches in Ward No.17 in RR Nagar Division

Name of the Agency: Executive Engineer-3, KRIDL.

Sl No	Total Qty	Description of Work	Sanctioned Estimate Rates			
			unit	Rate	Rate(In Words)	Amount (Rs)
1	5	Supply of solar lux level street light controller -single phase 3KW	Each	7984.00	Rupees Seven Thousand Nine Hundred and Eighty Four Only	39920.00
2A	10	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100 v grade, multistrand copper with low conductor resistence single core wire in open or consealed system of wiring wit specified IS-694:1990 & confirming to GTP of group A.. 2.5 sqmm	Per Mtr	29.20	Rupees Twenty Nine Only Paise Nineteen Only	292.00
2B	20	6 sqmm	Per Mtr	63.80	Rupees Sixty Three Only Paise Seventy Nine Only	1276.00
3	263	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II. LED Streetlight 65watts	Each	18720	Rupees Eighteen Thousand Seven Hundred and Twenty Only	4923360.00
4	263	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts ,nuts and wiring using suitable capacity wires. -Using 32mm dia G.I.pipe	Each	1140	Rupees One Thousand One Hundred and Forty Only	299820.00
5	100	Releasing and Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	176	Rupees One Hundred and Seventy Six Only	17600.00

	Total Qty	Description of Work	Sanctioned Estimate Rates			
			unit	Rate	Rate(In Words)	Amount (Rs)
6	5	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. -63Amps	Each	234	Rupees Two Hundred and Thirty Four Only	1170.00
7	5	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 100-125Amps	Each	9915	Rupees Nine Thousand Nine Hundred and Fifteen Only	49575.00
8A	5	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 5-32Amps SP	Each	418	Rupees Four Hundred and Eighteen Only	2090.00
8B	5	40-63 Amps SP	Each	677	Rupees Six Hundred and Seventy Seven Only	3385.00
9	5	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint -40x40x6mm	Per Mtr	263	Rupees Two Hundred and Sixty Three Only	1315.00
10	5	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. -- 300mmx450mmx214mm)	Each	5826	Rupees Five Thousand Eight Hundred and Twenty Six Only	29130.00
11	50	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm	Mtr	165.6	Rupees One Hundred and Sixty Five Only Paise Fifty Nine Only	8280.00
12	50	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure -25 sqmm to 75 sqmm	Mtr	34.8	Rupees Thirty Four Only Paise Seventy Nine Only	1740.00
13	5	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia	Each	86	Rupees Eighty Six Only	430.00
14A	40	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 16 sqmm	Each	11.31	Rupees Eleven Only Paise Thirty One Only	452.40
14B	20	25 sqmm Long Barrel	Each	20.59	Rupees Twenty Only Paise Fifty Eight Only	411.80

Certificate:-

I agree to carry out this work at the rates Mentioned above in the Schedule-B PLUS KRIDL charges, LWC and Applicable GST of 11% as per the Instructions of Engineer-in -Charge of the Work..

Executive Engineer-3
KRIDL

Executive Engineer-3
KRIDL, BBMP, Bangalore

Executive Engineer (Elect)
RR Nagar Zone
BBMP